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**Deformable models in medical image analysis**

M. H. H. ... - Mathematical Methods in ... 2002 - www.sciencedirect.com

... The use of a true 3D **deformable surface model** on the other hand, can result in a faster, more robust segmentation technique which ensures ... By using the Fourier parameterization followed by a statistical analysis of a **training set**, they define mean organ models and their eigen ...

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[\(PDF\) from psu.edu](#)**A shape-guided deformable model with evolutionary algorithm initialization for 3D soft tissue segmentation**

F. H. ... - Information Processing in ... 2007 - Springer

... A reliable initialization of the model using a global search in a down-sampled version of the image, and a robust **deformable surface model** with enough ... in [1]. It is built from a set of segmented **training images** and consists of two parts: A geometrical model describing the shape ...

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[\(PDF\) from psu.edu](#)**A three-dimensional deformable model for segmentation of human prostate from ultrasound images**

A. G. ... - Medical Physics, 2001 - link.springer.org

... In this work, we have proposed a **three-dimensional (3D) deformable surface model** for automatic segmentation of prostate. ... Each of these networks was trained using a small portion of a **training image** segmented by an expert sonographer. ...

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**Shape constrained deformable models for 3D medical image segmentation**

J. W. ... - Proceedings in Medical ... 2001 - Springer

... The pose and the parameters of the shape model are adapted together with the mesh vertices representing the **deformable surface model**. ... References: 1. TP Coates, CJ Taylor, DH Cooper, and J. Graham: Active Shape Models, their Training and Application. Comp. ...

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**CURRENT METHODS IN MEDICAL IMAGE SEGMENTATION1**

D. L. ... - Biomedical Engineering, 2000 - annualreviews.org

... The most widely applied use in medical imaging is as a classifier (40, 66), in which the weights are determined by using **training data** and the ANN is then used to segment ... An example of using a **deformable surface model** for this application is shown in Figure 6 (see color insert ...)

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[\(PDF\) from cs.cmu.edu](#)**Measuring size and shape of the hippocampus in MR images using a deformable shape model**

D. S. ... - NeuroImage, 2002 - Elsevier

... MOCO (1999), S. TP Coates, D. Cooper, CJ Taylor and J. Graham: Active shape models-their training and application. ... 11. A. Ghanai, H. Soltanian-Zadeh and JP Windham: A 3D **deformable surface model** for segmentation of objects from volumetric data in medical images. ...

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[\(PDF\) from psu.edu](#)**A review of deformable surfaces: topology, geometry and deformation**

J. M. ... - Image and vision computing, 2001 - Elsevier

... Author Keywords: **Deformable surface**, Model representation; Surface geometry; Surface topology; 3D reconstruction. ... For instance, statistical shape variations from a **training set** [26] may be used to constrain the deformation of a geometric model. ...

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**Hierarchical matching of cortical features for deformable brain image registration**

M. V. ... - Information Processing in Medical Imaging, 1993 - Springer

... formation is a reparameterization of the subject's surface, for which the subject's central sulcus has exactly the coordinates of the average central sulcus of the **training set** ... Davatzikos, C., Bryan, RN: Using a **deformable surface model** to obtain a shape representation of the cortex ...

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[\(PDF\) from psu.edu](#)**Deformable segmentation of 3-D ultrasound prostate images using statistical texture matching method**

Y. Z. ... - Medical Imaging, IEEE Transactions on, 2006 - link.springer.org

... In our **deformable surface model**, in order to characterize and differentiate image textures locally and adaptively, in the training stage, all G-SVMs are trained to capture the texture priors around its corresponding subsurface in a group of **training samples**. ...

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[\(PDF\) from usc.edu](#)**Using a statistical shape model to extract sulcal curves on the outer cortex of the human brain**

X. T. ... - Medical Imaging, IEEE ... 2006 - www.sciencedirect.com

... C-URVES Tl model built using the algorithm described above can now be used to search for and label sulcal curves in a brain image out-side the **training set**, whose outer cortex and spherical map of the outer cortex are obtained using a **deformable surface model** [9]. To do so ...

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